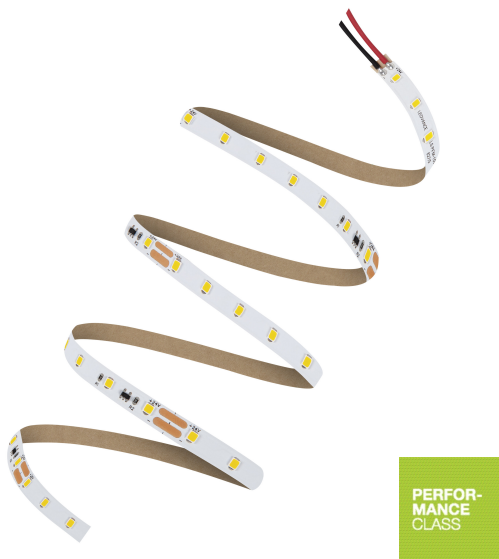


PRODUCT DATASHEET

LS PFM -2000/827/5

BIOLUX HCL LED STRIP KIT | LED Strip KIT, Tunable White, Zigbee



Areas of application

- General indoor illumination
- Industry
- Offices, retail outlets and conference rooms
- Architecture lighting

Product benefits

- Great scope of design options due to long and flexible LED strips
- Easy installation, no tools required for connection
- Easy mounting on many smooth surfaces thanks to self-adhesive tape
- Maximum flexibility due to large range of accessories
- Simple connection thanks to integrated cables on both sides

Product features

- Flexible and cuttable LED strip
- Smallest cuttable unit: 100 mm
- Lifetime (L70/B50): up to 35,000 h at Tc max.: 75°C
- Luminous flux: 2000 lm/m
- Color rendering index R_a : > 80
- Initial color consistency: ≤ 4 SDCM
- Large range of color temperatures: from warm white to cool daylight
- Dimmable with suitable drivers, see also www.ledvance.com/dim



TECHNICAL DATA

Electrical data

Nominal wattage	72.00 W
Nominal voltage	24 V ¹⁾
Nominal current	3000.000 mA

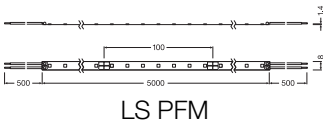
1) V_{DC}

Photometrical data

Luminous flux	9000 lm
Luminous efficacy	125 lm/W
Color temperature	2700 K
Light color (designation)	Warm White
Color rendering index Ra	> 80
Standard deviation of color matching	≤4 sdcn
Beam angle	120 °

Dimensions & Weight

Length	5000.00 mm
Width	8.00 mm
Height	1.40 mm
Product weight	80.00 g
Cable length	500.000



Application & Mounting

Ambient temperature range	-15...+45 °C ¹⁾
Temperature range at storage	-35...+85 °C
Type of connection	Prewired cables on both sides
Type of protection	IP00

Dimmable	Yes ²⁾
Mounting type	Surface

1) Providing that temperature at Tc point is below max value during operation
2) Dimmable with suitable drivers, see also www.ledvance.com/dim

Lifespan

Lifespan L70/B50 at 25 °C	35000 h
Number of switching cycles	100,000

Certificates & Standards

Standards	Acc. to IEC 62471 / Acc. to IEC 60598-1 / Acc. to EN 60529 / Acc. to EN 62031 / Acc. to EN 55015 / Acc. to EN 61547
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Accessories Mandatory

Product image	Product name	EAN
	DR-VAL -150/220-240/24	4058075240179
	DR-PFM -250/220-240/24/P	4058075240032
	DR DIM-PFM -100/220-240/24/P	4058075240070
	DR-PFM -100/220-240/24/P	4058075239937
	DR DIM-PFM -250/220-240/24/P	4058075240155
	DR-VAL -120/220-240/24	4058075240131

Product image	Product name	EAN
	DR DIM-PFM -150/220-240/24/P	4058075240117
	DR-PFM -150/220-240/24/P	4058075239975

Accessories Optional

Product image	Product name	EAN
	LS AY PFM -CSW/P2/50	4058075272231
	LS AY -PW01/U/26X8/14/2	4058075401440
	LS AY -PF03/UW/25X7/12/2	4058075401594
	LS AY -PM05/U/17,5X14,5/10/2	4058075401778
	LS AY -PF04/U/17X7/12/1	4058075278288
	LS AY -PF01/UW/22X6/10/1	4058075278196
	LS AY -PM05/U/17,5X14,5/10/1	4058075279278
	LS AY -PM01/UW/21,5X12/10/2	4058075401655

Product image	Product name	EAN
	LS AY -PM04/UW/23X15,5/10/2	4058075401747
	LS AY -PF01/UW/22X6/10/2	4058075401532
	LS AY -PM03/E/19X19/10/2	4058075401716
	LS AY -PM01/UW/21,5X12/10/1	4058075278318
	LS AY -PM02/R/18X15,5/10/1	4058075278349
	LS AY -PM02/R/18X15,5/10/2	4058075401686
	LS AY -PW01/U/26X8/14/1	4058075278103
	LS AY -PF04/U/17X7/12/2	4058075401624
	LS AY PFM -CP/P2/500	4058075272200
	LS AY PFM -CSD/P2	4058075275393
	LS AY -PM06/E/18X18/12/1	4058075279308

Product image	Product name	EAN
	LS AY -PF03/UW/25X7/12/1	4058075278257
	LS AY -PW03/U/26X26/14/1	4058075278165
	LS AY -PM04/UW/23X15,5/10/1	4058075278400
	LS AY -PF02/U/16X5/10/2	4058075401563
	LS AY -PW03/U/26X26/14/2	4058075401501
	LS AY -PW02/UW/39X26/14/1	4058075278134
	LS AY -PF02/U/16X5/10/1	4058075278226
	LS AY -PM03/E/19X19/10/1	4058075278370
	LS AY PFM -8/SMB	4058075275645
	LS AY -PM06/E/18X18/12/2	4058075401808
	LS AY -PW02/UW/39X26/14/2	4058075401471

EQUIPMENT / ACCESSORIES

- Connectors, profiles and covers for several mounting options available

ADDITIONAL PRODUCT INFORMATION

- All the technical parameters apply to the entire LED module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.
- All LED strips have a self-adhesive tape on the reverse side. LED strips can be attached to suitable materials, e.g. aluminum profiles. The surface of the material must be free of grease, oil, silicone and dirt particles. The adhesive tape can be used only one time, if the LED strip will be removed from the mounting surface, there could be a damage of the LED strips and the mounting material. The surface temperature of the mounting material should be in the temperature range of 18°C...35°C. Complete adhesion takes up to 72 h.
- According IPC 6013C – Use A the LED strips are designed for static installation. Vibrations, respective torsion and elongation/compression must be considered.
- In a wide temperature range operation field (e.g. outdoor installation) and a LED strip length with more than 2m suitable mounting surface is required. To avoid stress due to mismatch in expansion of the different materials, there should be an extra thicker adhesive tape between LED strip and mounting surface. Additionally, the LED strip should have enough space for thermal expansion at higher temperatures.
- Compensation due to chemical corrosion is excluded. A suitable protection against corrosive agents such as moisture, condensation etc. must be provided. Hydrogen sulfide (H₂S) will cause an accelerated corrosion which leads to shortened lifetime or premature failure.
- IP00 LED strips have not surface coating. Consequently, they have no protection against contact and corrosion.
- Installation of the LED strip has to be done by a qualified electrician.
- Handle with care to avoid mechanical product damage
- If the maximum operating and storage temperature ratings will be exceeded, the expected lifetime will be reduced or even the LED strip will be destroyed. It is not allowed to operate the LED strip over the specified T_c temperature (acc. EN 60598-1 under steady state conditions)
- It is not allowed to exceed the maximum operation voltage. This could cause a hazardous overload and will destroy the LED strip.
- The applicable electrical and safety standards have to be maintained for a LED strip installations
- Pay attention on correct polarity. Incorrect polarity or wrong wiring can cause unpredictable permanent damage or even failure of the product.
- Galvanic Insulation between LED strip and mounting surface must be ensured. This Insulation is needed especially in the area of connections or cut ends.
- In installations of LED strips ESD safety must be taken in account. Adequate precautions during installation and operation for the products are required.
- LED strip can be operated only by a SELV LED driver, which comply with the applicable lighting standards and fits to LED strips rating. A safety operation of the LED strips require a SELV LED driver with an electronically stabilized power supply protection against short circuits, overload and overheating.
- To avoid a damage of the LED strip, the unmounted LED strip should be handled and stored only in the original LEDVANCE packaging (wheel / ESD bag). Repacking is not allowed. Cutted IP 6x LED strips can be stored only with mounted endcaps.

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	LED STRIP PERFORMANCE IP00
	Declarations of conformity	EU Declaration of conformity 3563397 LS PFM

Photometric and lighting design files		Document name
	IES file (IES)	LS PFM-2000-827-5
	IES files (IES, additional)	LS PFM-2000-827-5-0.1M
	LDT file (Eulumdat)	LS PFM-2000-827-5.
	LDT files (Eulumdat, additional)	LS PFM-2000-827-5-0.1M

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075236127	Folding box 1	242 mm x 242 mm x 26 mm	271.00 g	1.52 dm³
4058075236134	Shipping box 10	260 mm x 260 mm x 265 mm	3101.00 g	17.91 dm³
4058075253858	Shipping box 40	540 mm x 280 mm x 555 mm	13411.00 g	83.92 dm³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.